

FIG. 1A

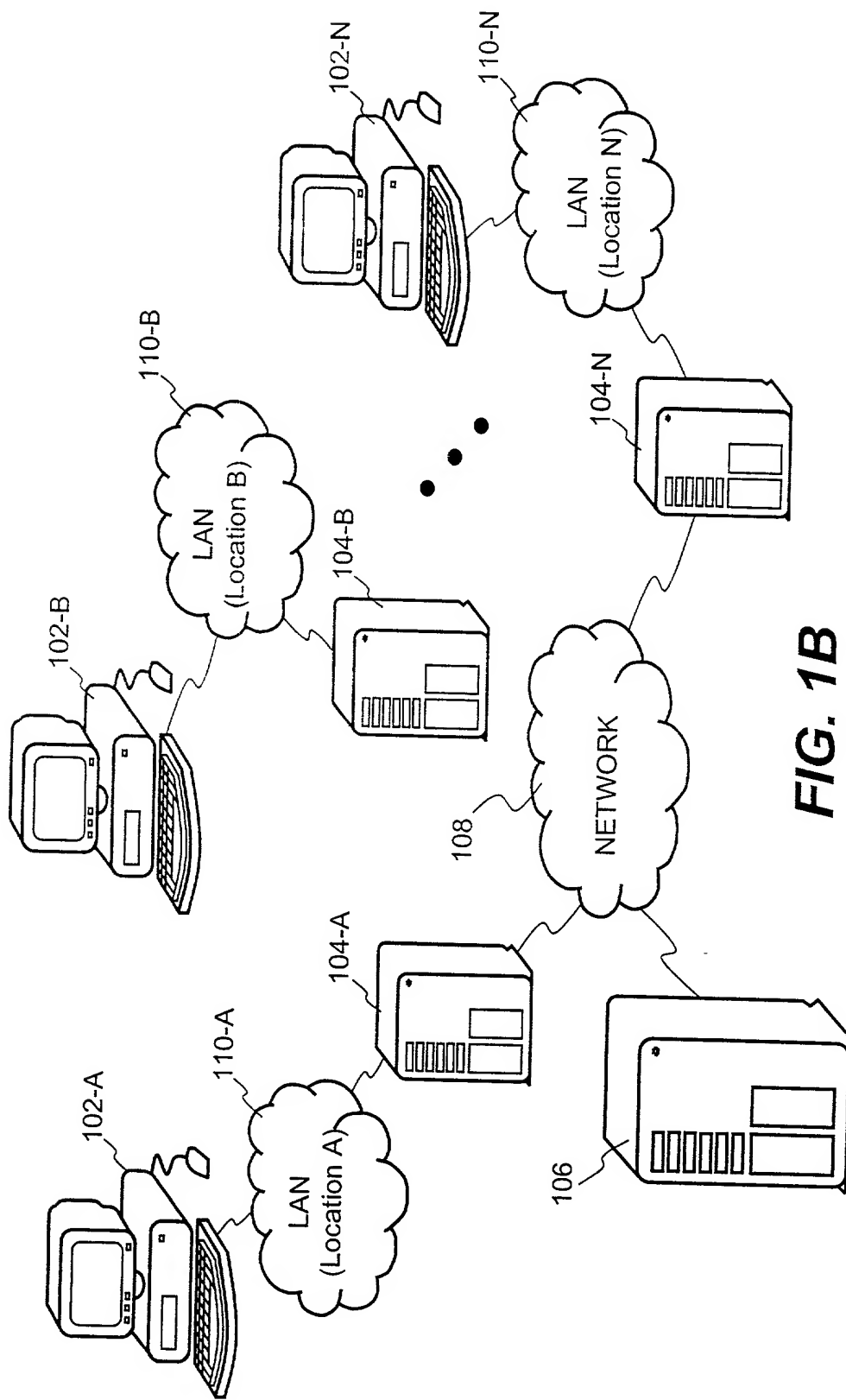


FIG. 1B

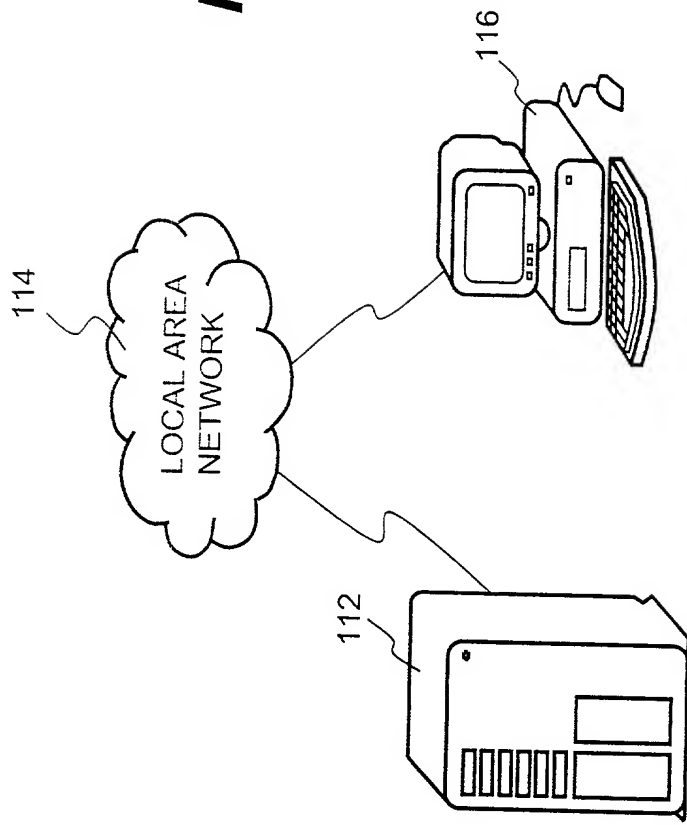


FIG. 1C

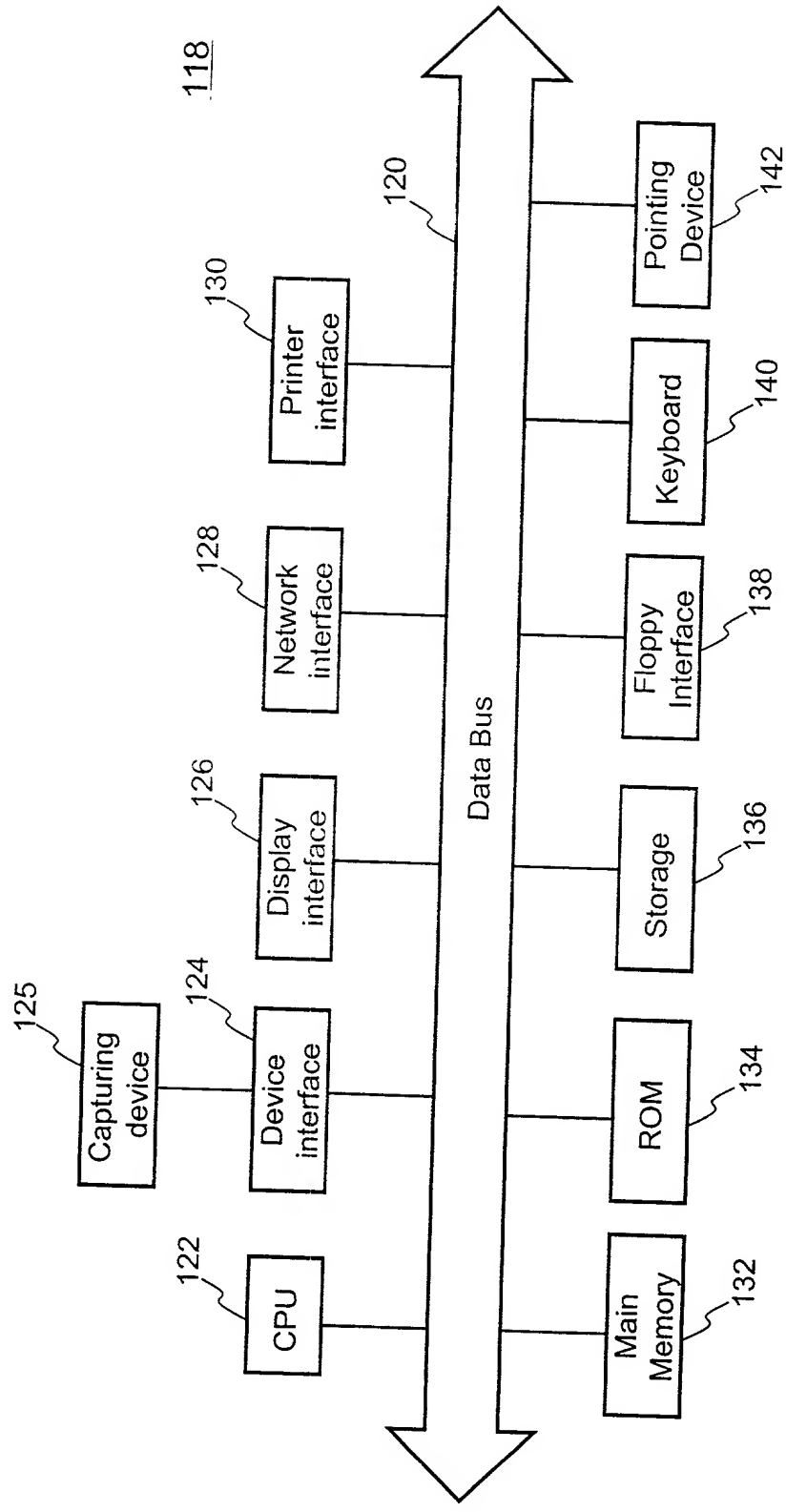
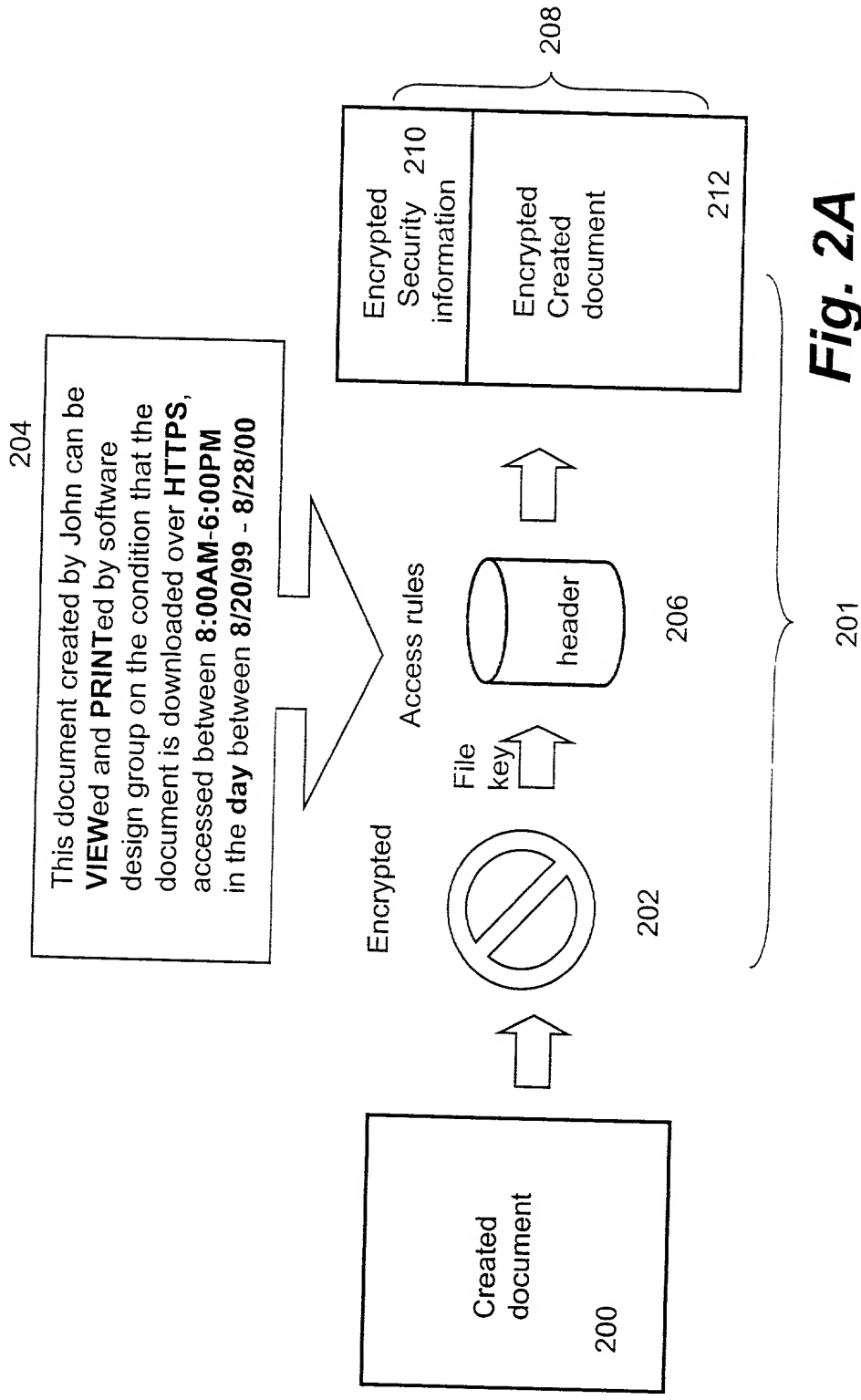


Fig. 1D



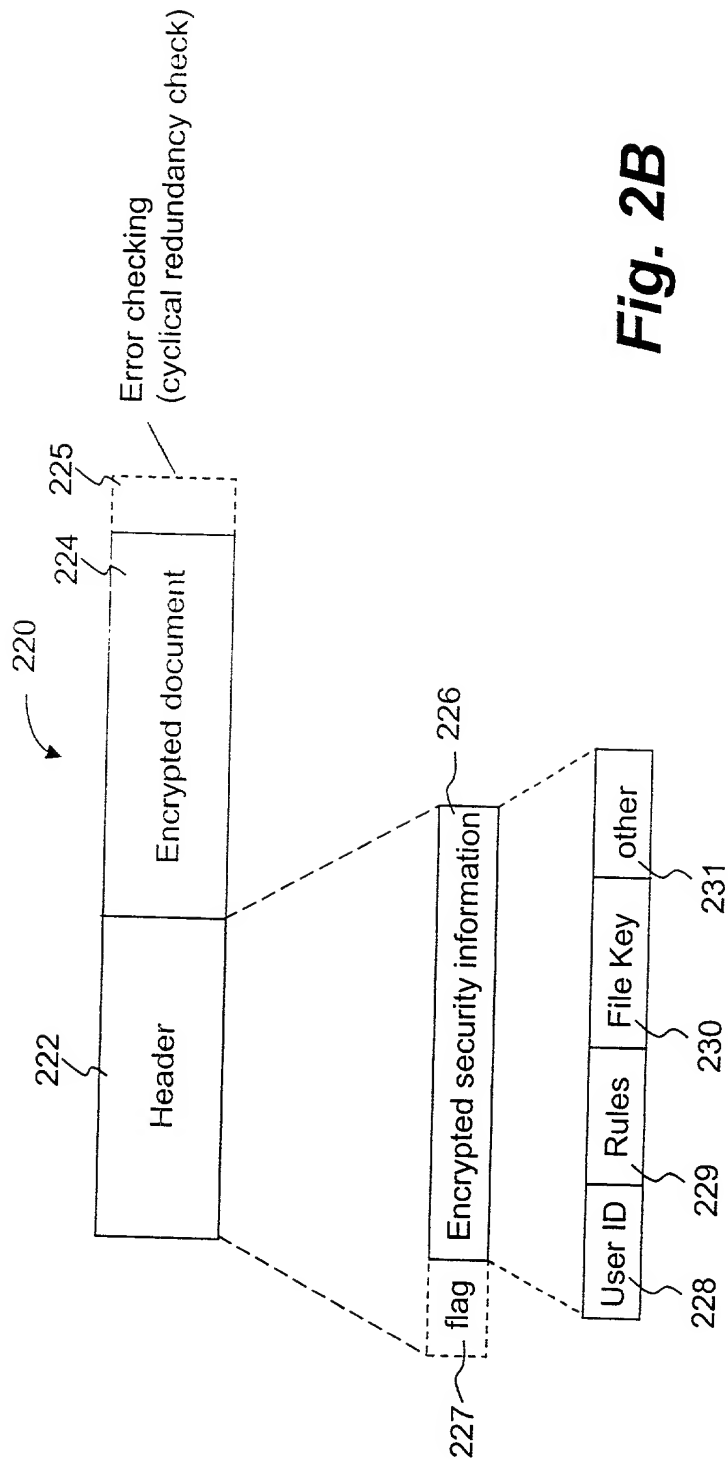


Fig. 2B

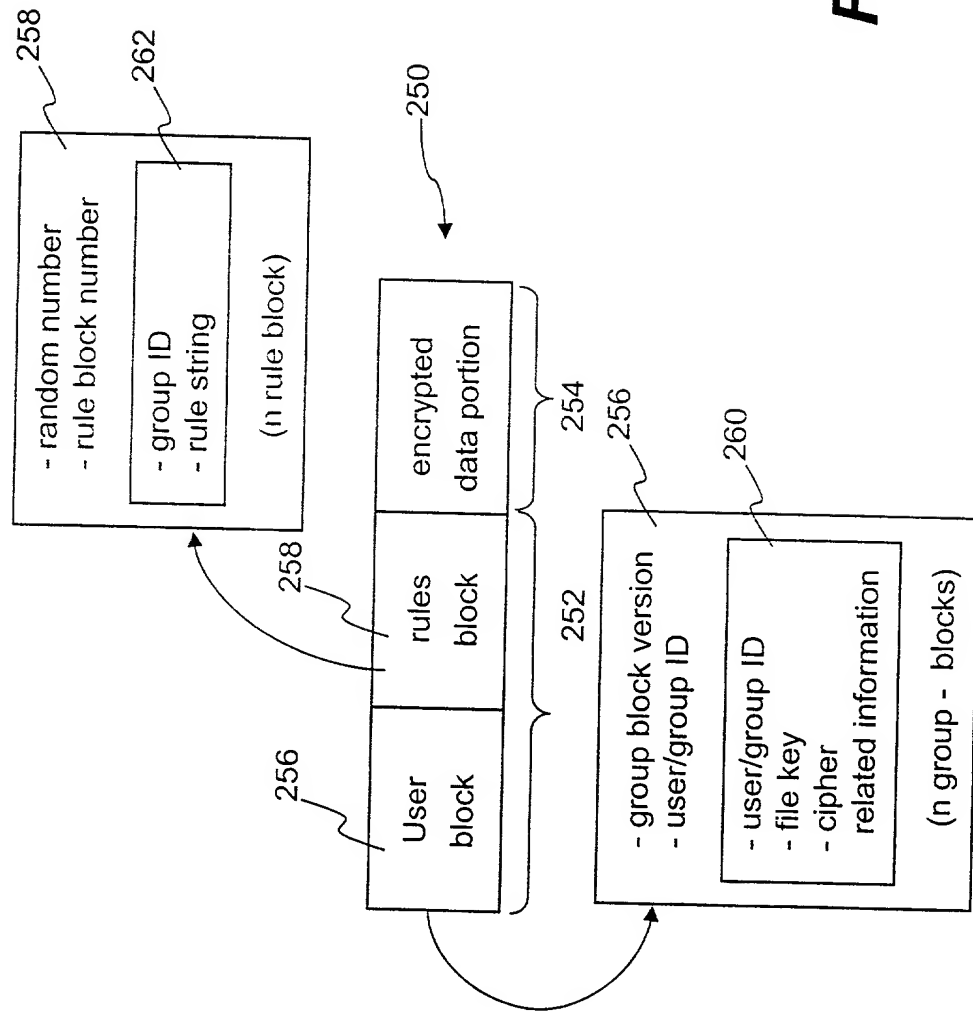


Fig. 2C.2

The diagram illustrates XML code snippets for a public-key and a marketing group, with annotations 266, 267, 268, 269, 270, and 272 pointing to specific elements.

Annotation 266: Points to the `<key_block_version>` element in the public-key snippet.

Annotation 267: Points to the `<key_block_size>` element in the marketing snippet.

Annotation 268: Points to the `<key_block_size>` element in the public-key snippet.

Annotation 269: Points to the `<key_block_size>` element in the marketing snippet.

Annotation 270: Points to the `<key_block_size>` element in the public-key snippet.

Annotation 272: Points to the `<key_block_size>` element in the marketing snippet.

Public-key snippet:

```

<key_block>
<key_block>
<key_block_version> 1.0 </key_block_version>
<group_id> www.xyz.com/engineering </group_id>

< ** /* encrypted with User1_Trivial_Group's public-key */
<group_id> www.xyz.com/engineering </group_id>
<crypto>
<dek_mat>P39GJ439833IOOE9315UR93U3945U439</dek_mat>
<enc_algo>
<name>
  RUNDAL
</name>
<key_size> 256 </key_size>
<block_size> 128 </block_size>
<enc_algo>
<ses_enc_block_size> 4096 </ses_enc_block_size>
</crypto>
**>

```

Marketing snippet:

```

<key_block>
<key_block>
<key_block_version> 1.0 </key_block_version>
<group_id> www.xyz.com/marketing </group_id>

< ** /* encrypted with Marketing's public-key */
<group_id> www.xyz.com/marketing </group_id>
<crypto>
<dek_mat>P39GJ439833IOOE9315UR93U3945U439</dek_mat>
<enc_algo>
<name>
  RUNDAL
</name>
<key_size>
  256
</key_size>
<block_size>
  128
</block_size>
<enc_algo>
<ses_enc_block_size>
  4096
</ses_enc_block_size>
</crypto>
**>

```

275

AdmGrp : GUI

Group to pickup users:
Group C

User Names
User 15
User 16
User 17
User 18
User 19

Add
Delete

Group to setup:
Group B

User Names
User 20
User 21
User 22
User 23
User 24
User 25
User 26
User 27
User 28
User 29
User 30

Rights about other groups:
☐ Adm Rights
☒ Close
☐ Grant group creation
☐ Grant to set or no closed groups

Default rights for files in this group:
☒ Read
☒ Update
☒ Delete
☐ Change group

Apply
Administrator Menu

276

277

Fig. 2D

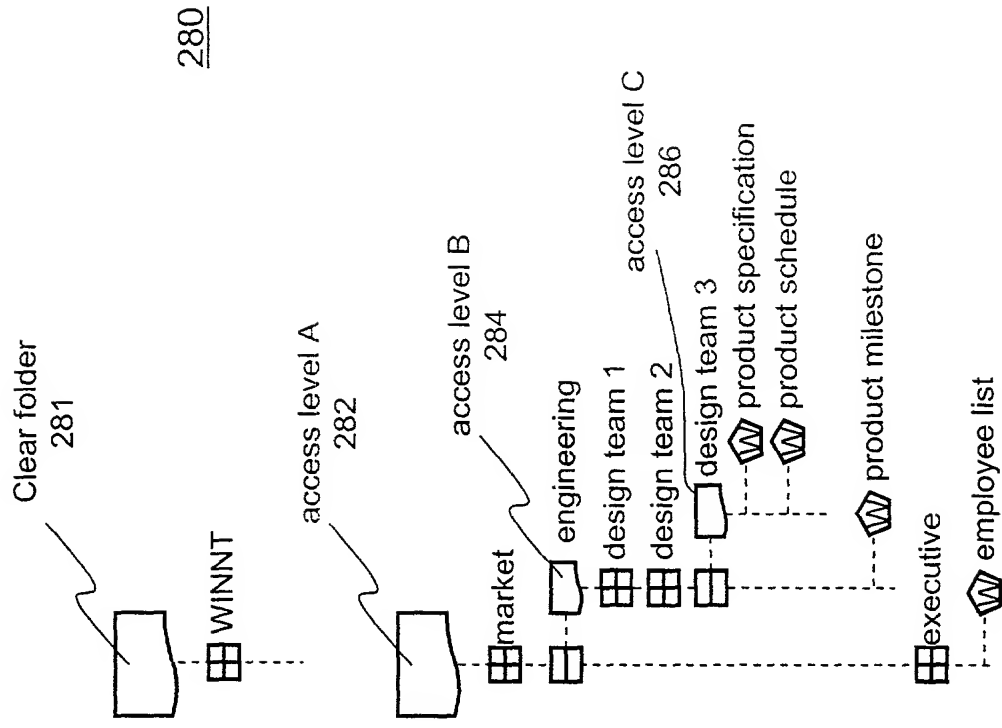


Fig. 2E

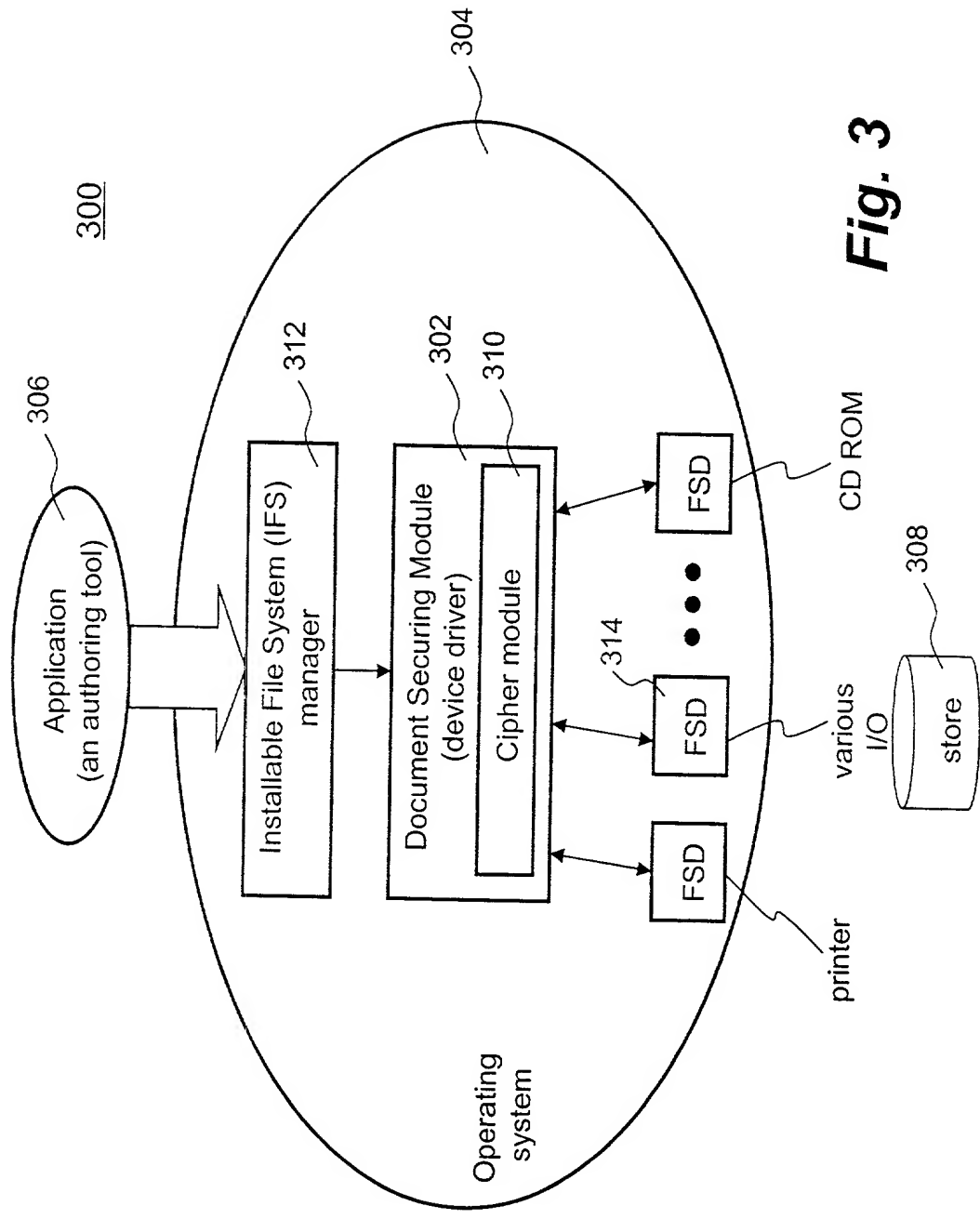


Fig. 3

Process of securing
a document 400

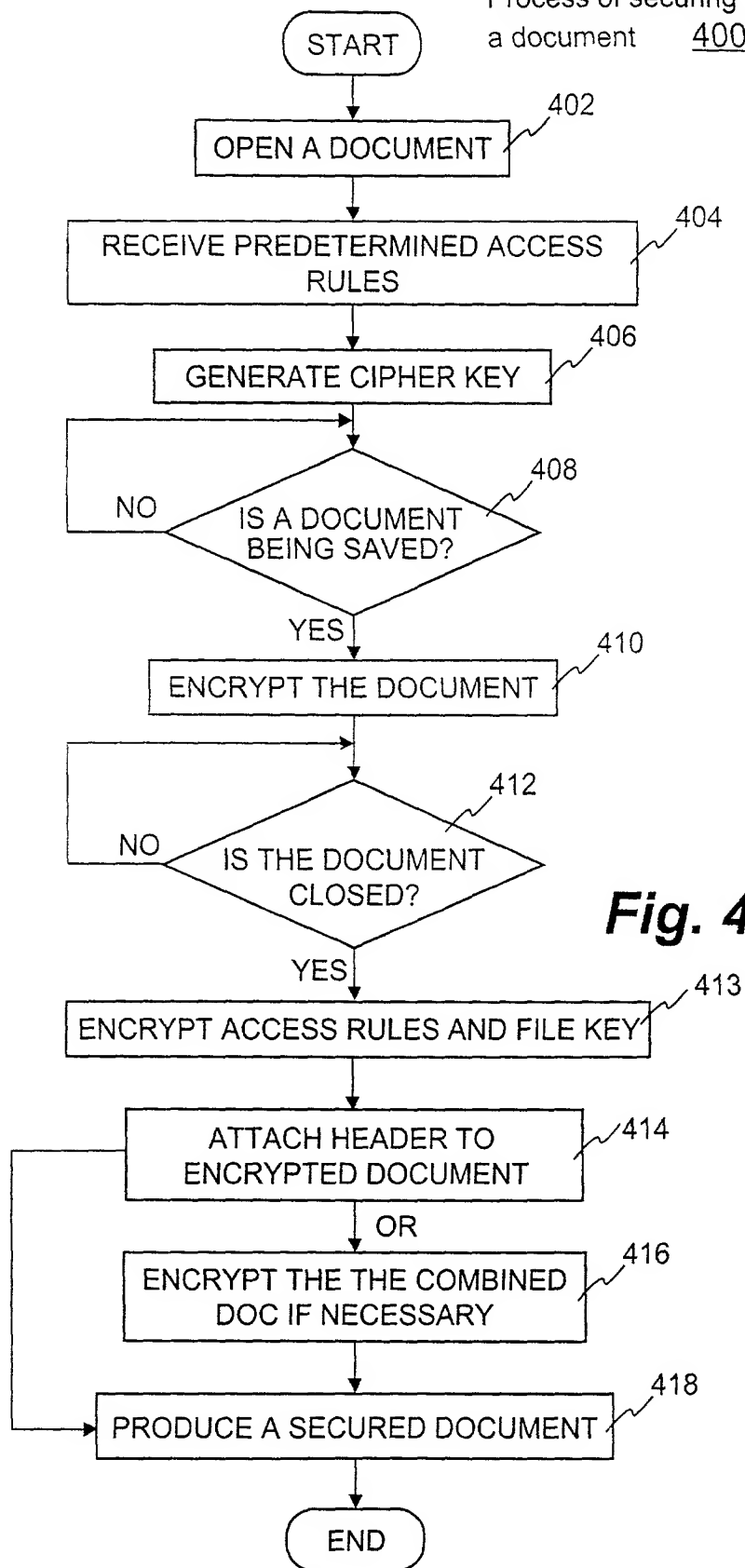


Fig. 4A

Process of receiving
access rules 430

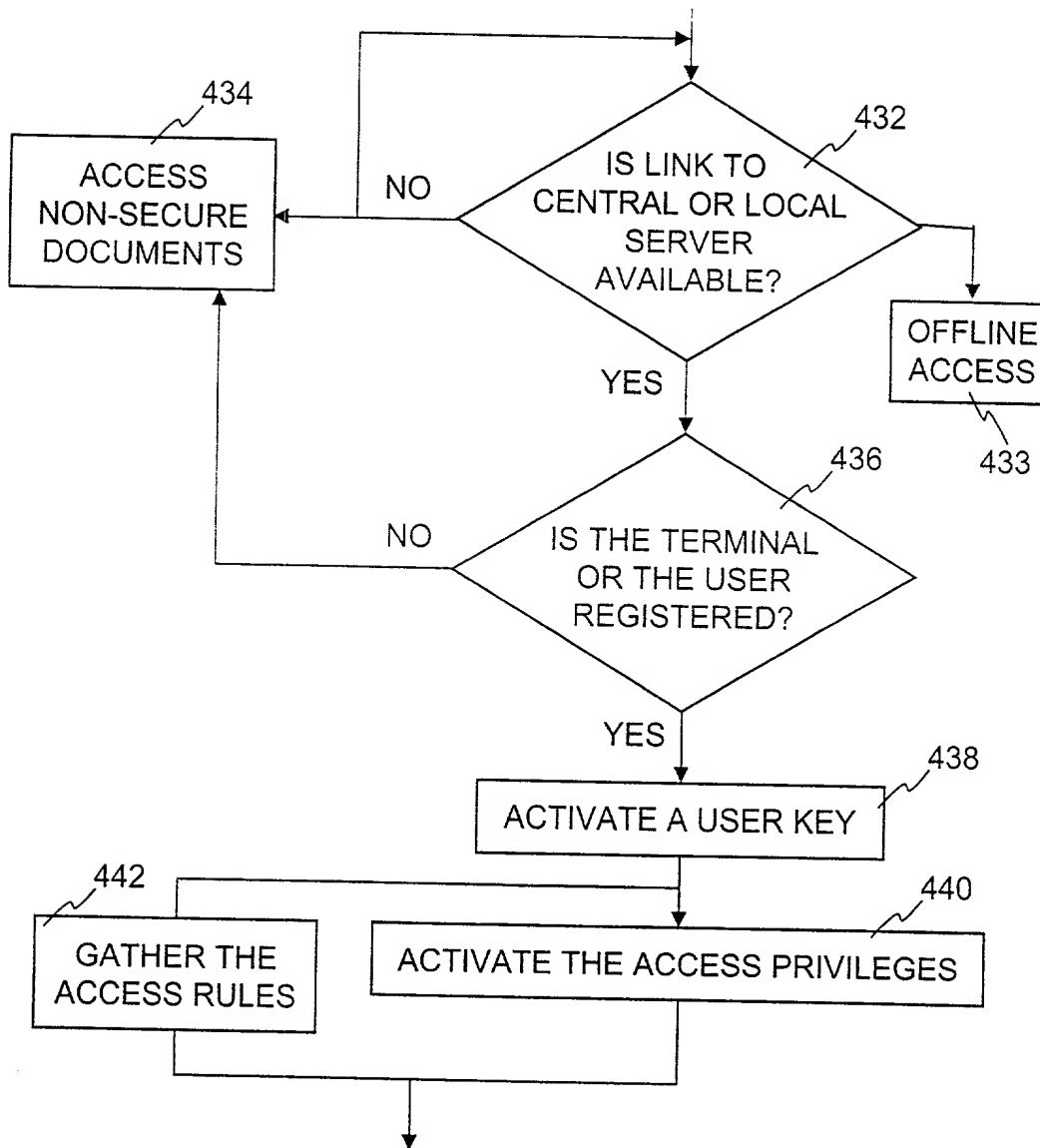
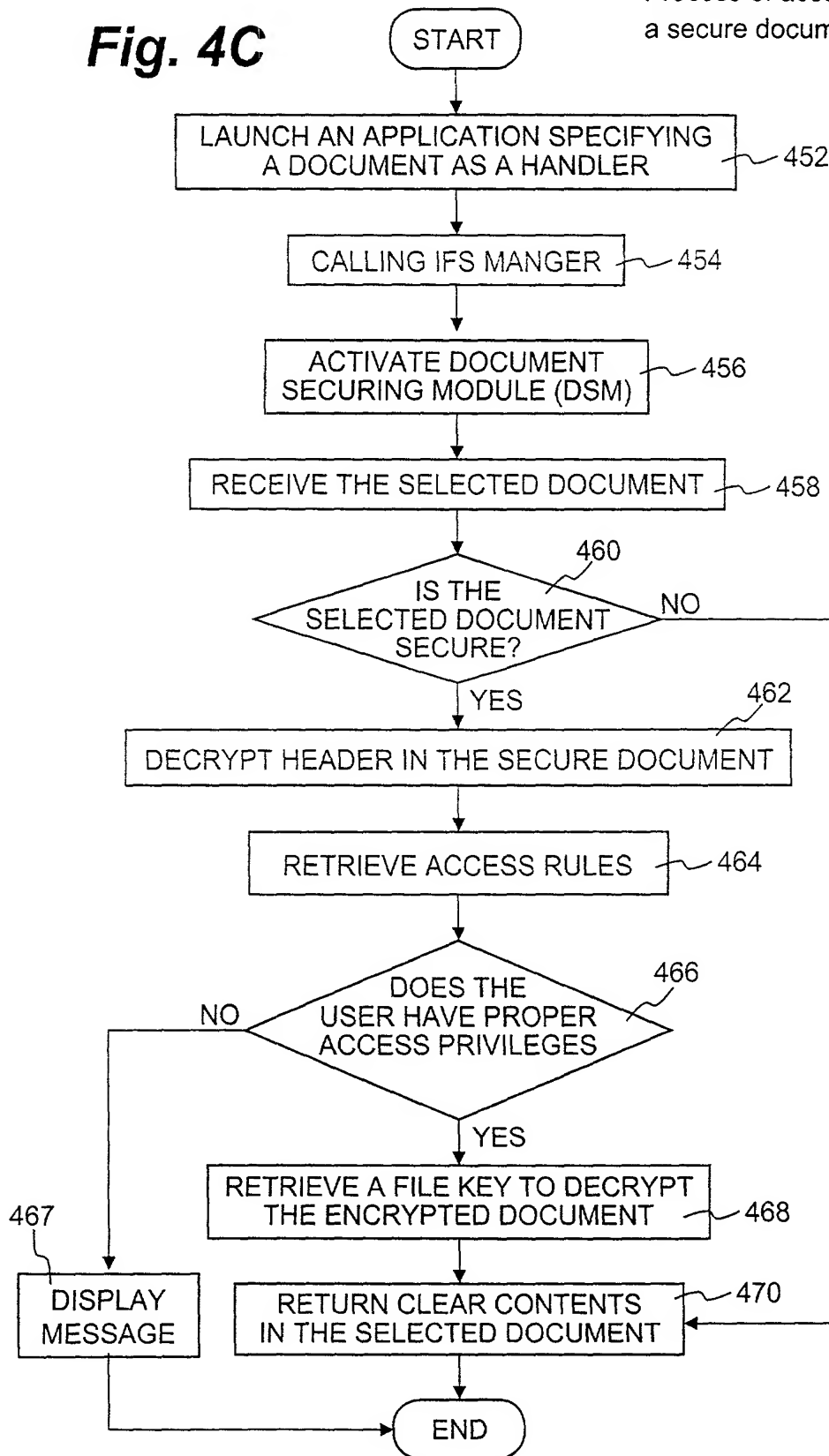
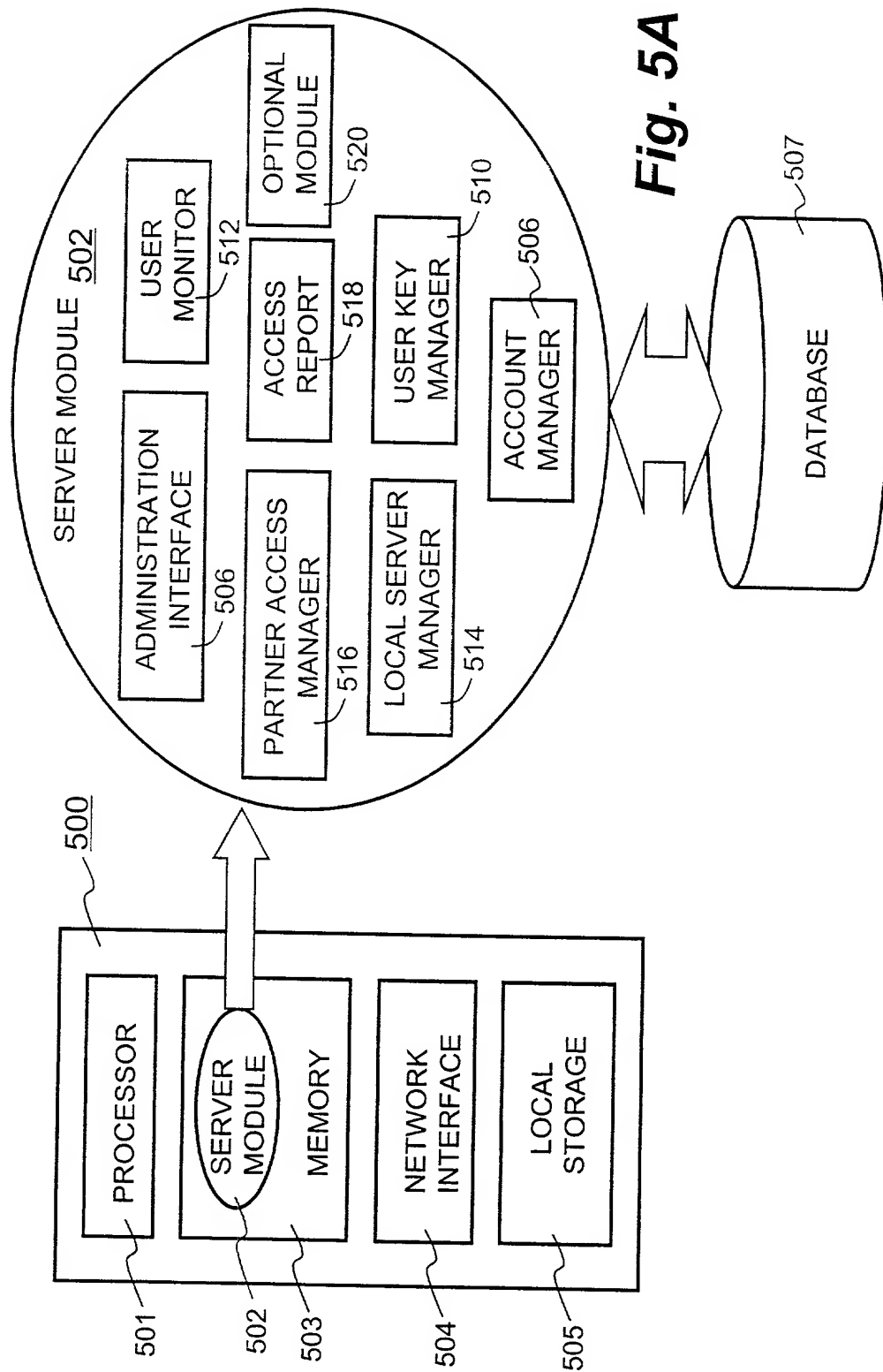


Fig. 4B

Fig. 4C

Process of accessing
a secure document 450





User ID	User	Open	Edit	Write	Print	Copy	Download	Others
01243	User A	Y	Y	Y	Y	Y	Y	Y
17364	User B	Y			Y			
18465	G User C	Y	Y	Y			Y	
...								

Fig. 5B.1

All user keys	Key/Key pair	Location	others
John's	111101101010101	128.1.100.64, ...	
Mike's, Dell's	101011000111111	64.100.1.128, ...	
Finance group	010101010111111	64.100.1.100, ...	
...			

Fig. 5B.2

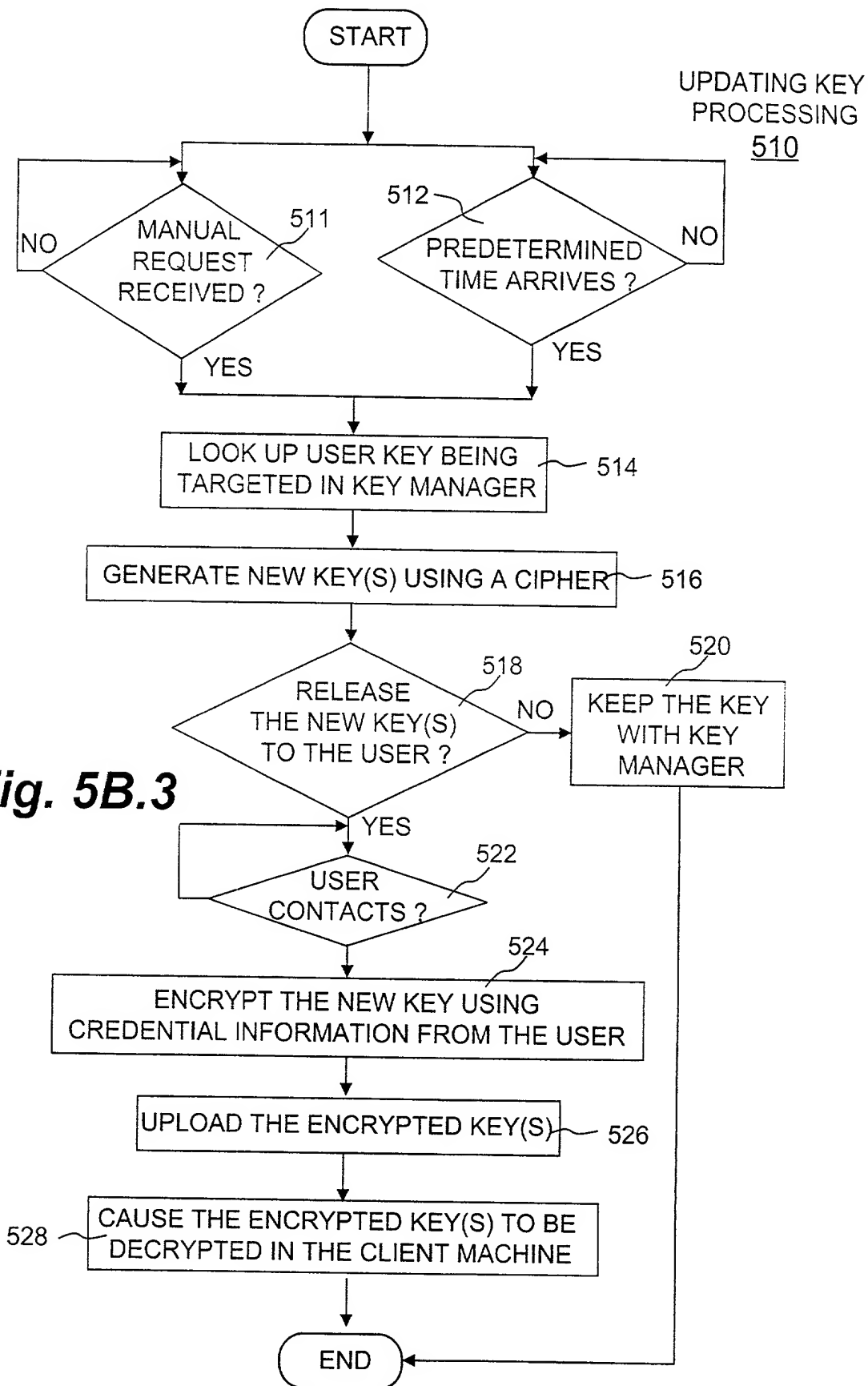


Fig. 5B.3

Server Assisted Process
of Accessing secure
document 530

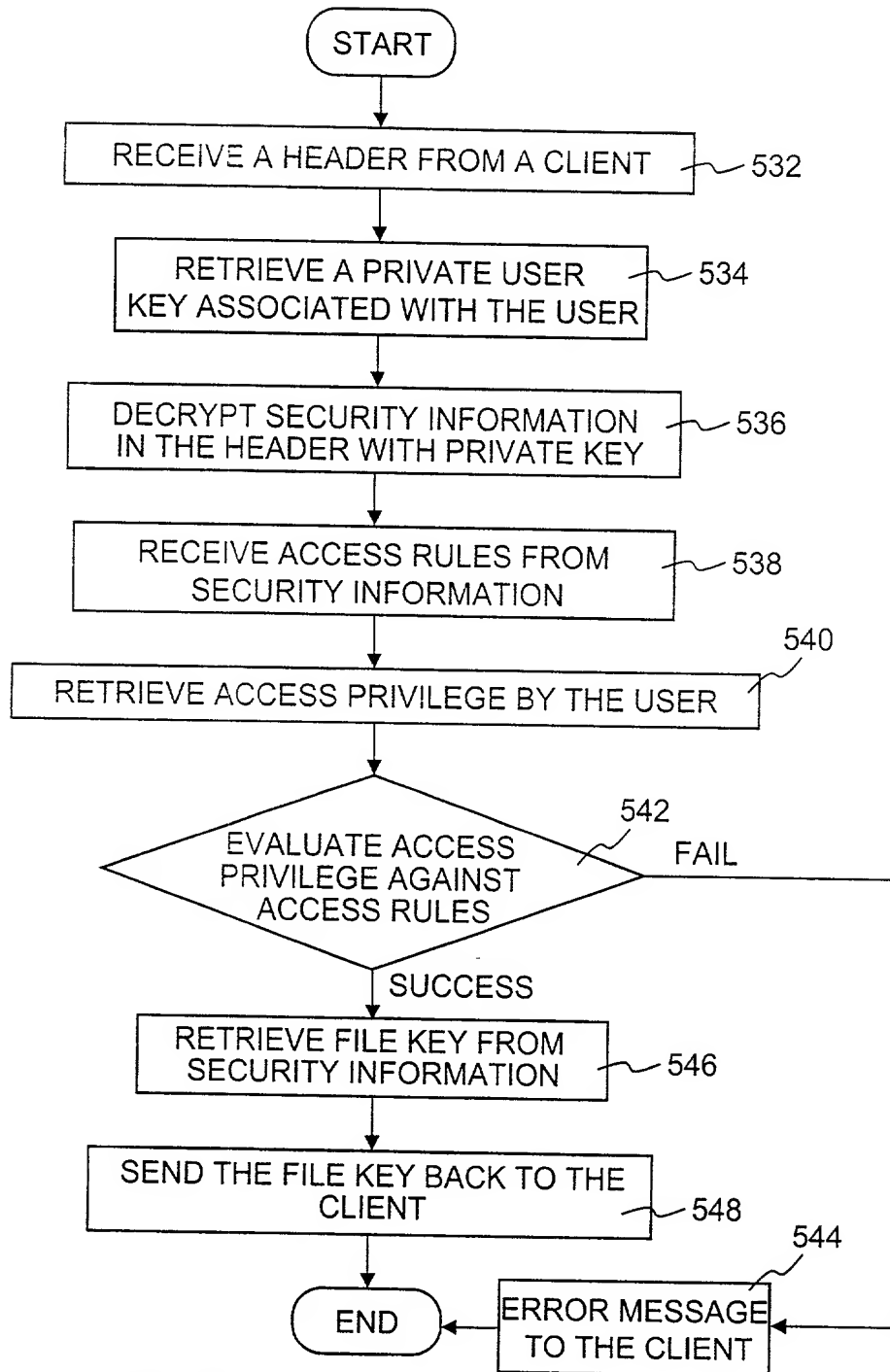


Fig. 5B.4

Server Assisted Process
of securing a document
550

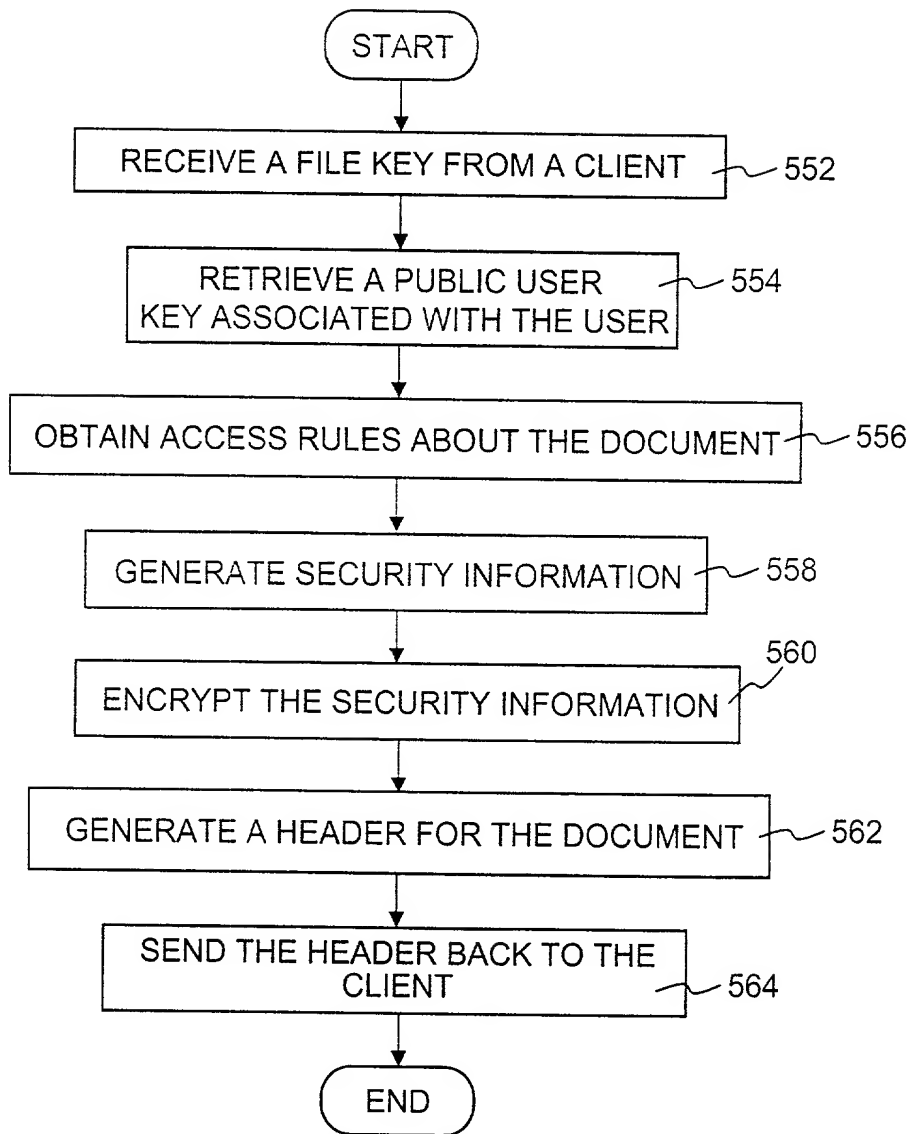


Fig. 5B.5

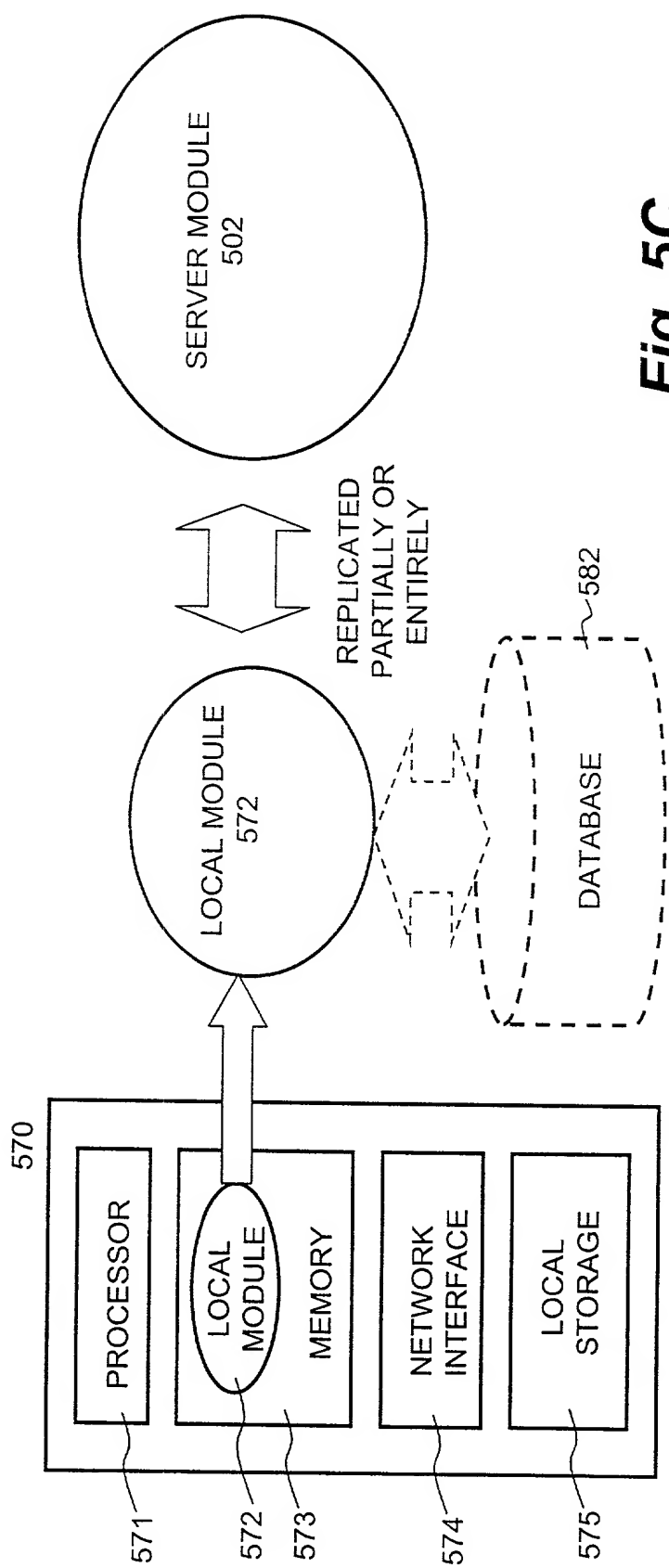


Fig. 5C

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USER	PASSWORD	ACCESS PRIVILEGES
John	*****	L=10, T=24, D=ALL, C=ALL
Dell	*****	L=1, T=8, D=M-F, C=A
Mike	*****	L=5, T=12, D=M-S, C=A & B
• • •		

Fig. 5D

For Local Server A

USER	PASSWORD
John	*****
Dell	*****
Mike	*****
• • •	

For Local Server B

USER	PASSWORD
John	*****
Mike	*****
• • •	

For Local Server C

USER	PASSWORD
John	*****
• • •	

Fig. 5E

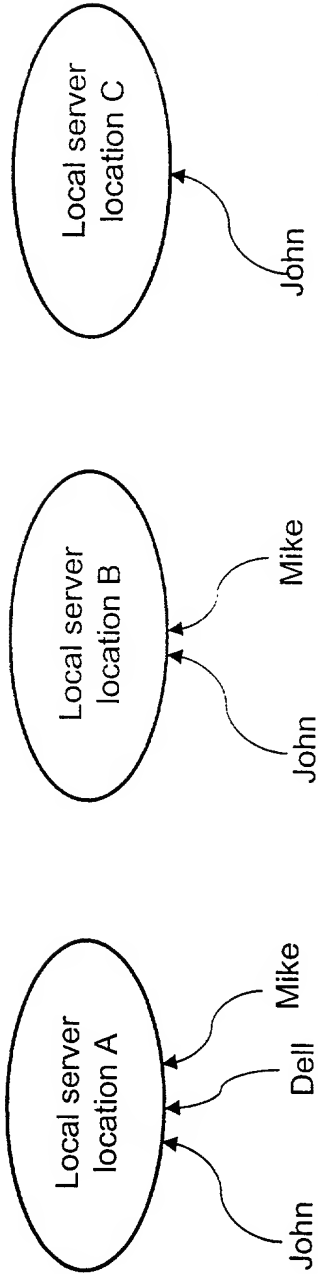


Fig. 5F

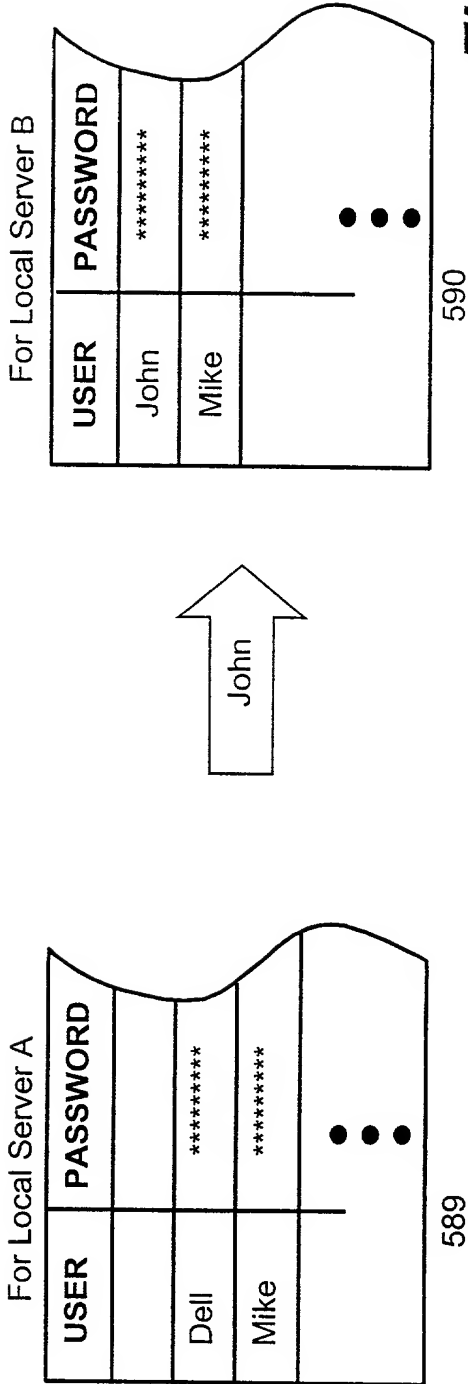


Fig. 5G

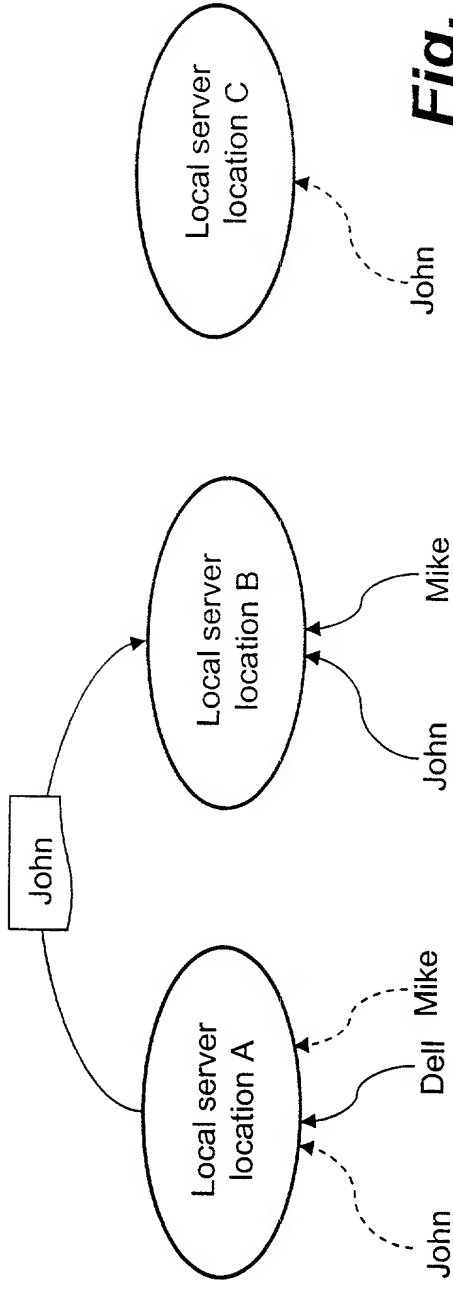


Fig. 5H

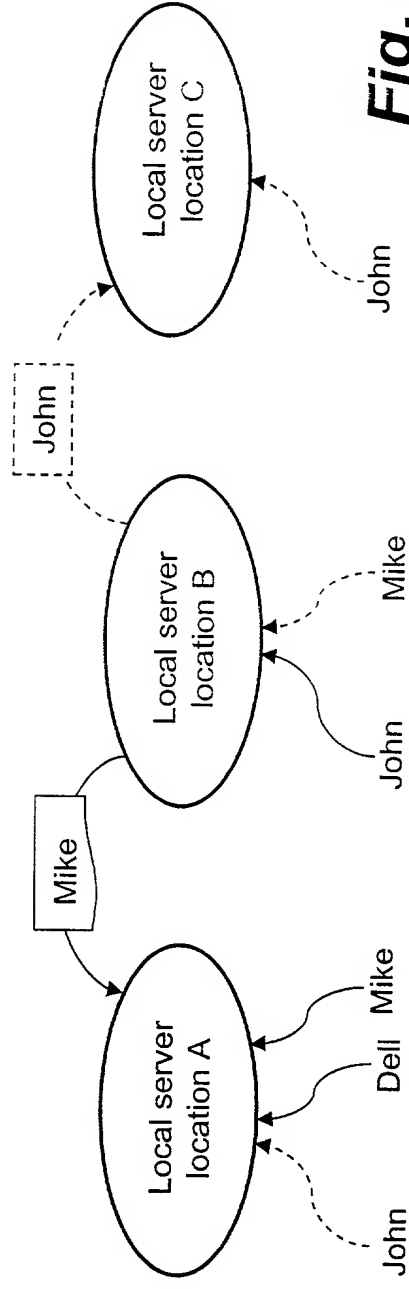


Fig. 5I

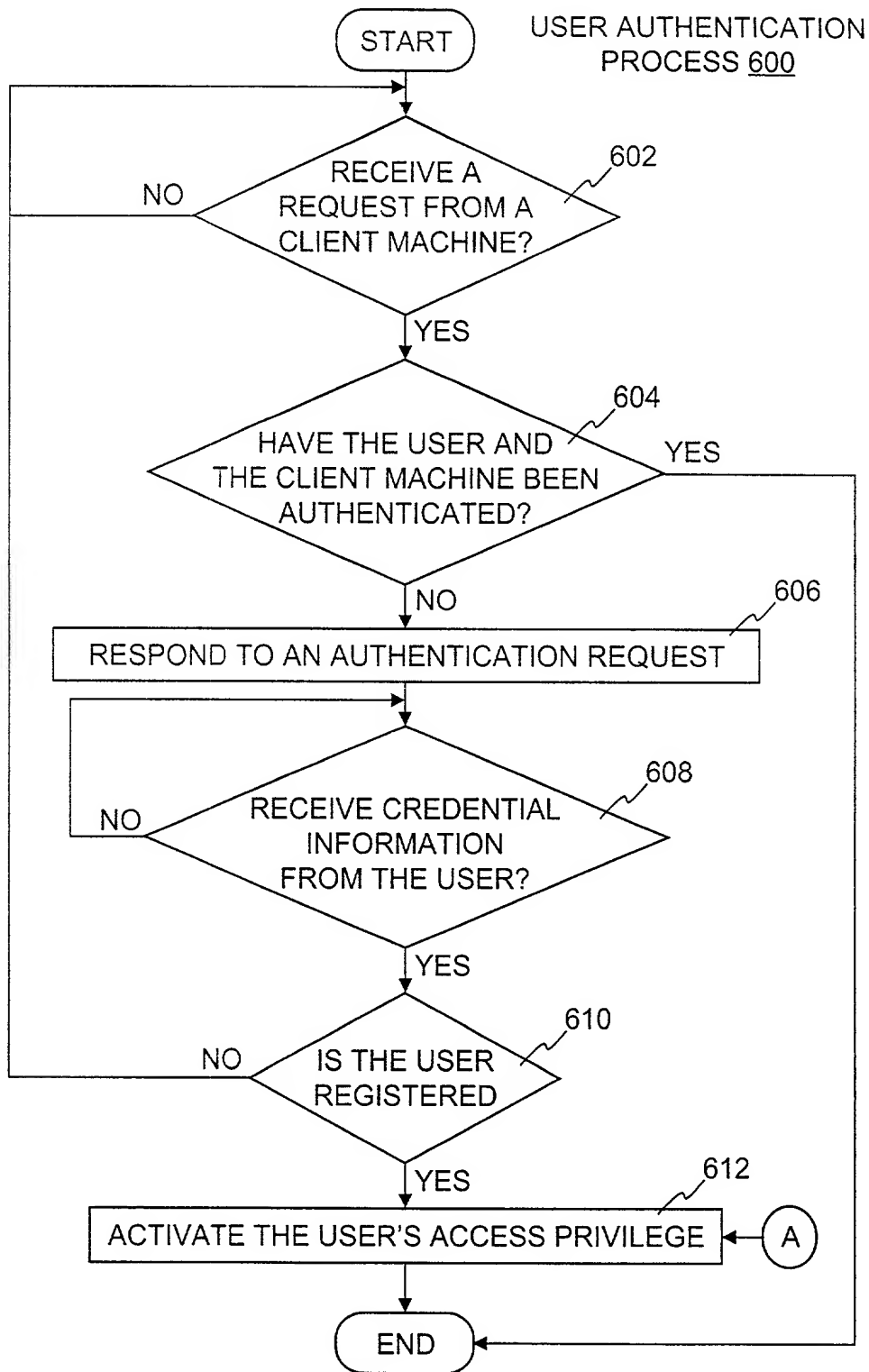


Fig. 6A

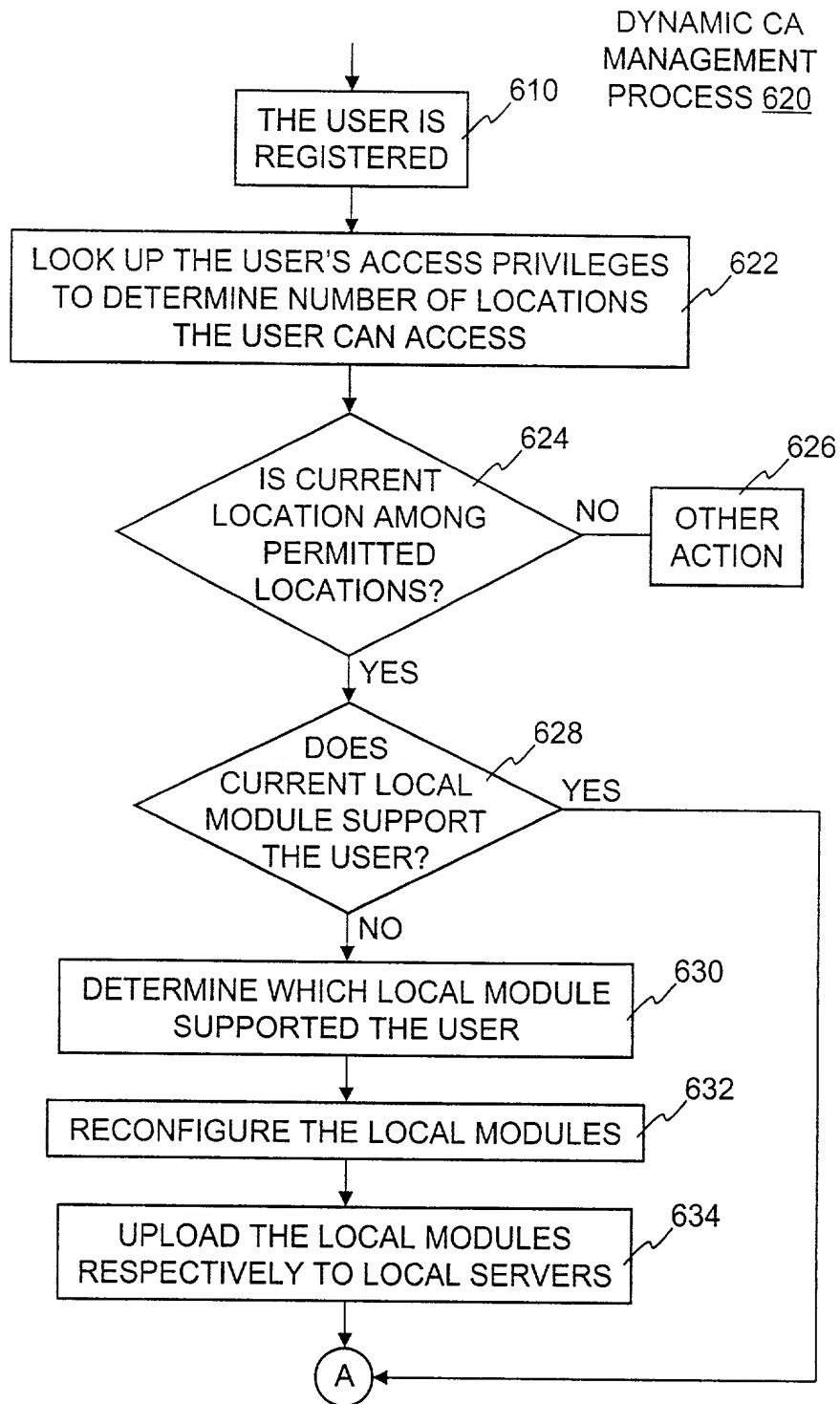


Fig. 6B

PROCESS OF
RECONFIGURING
LOCAL MODULE
640

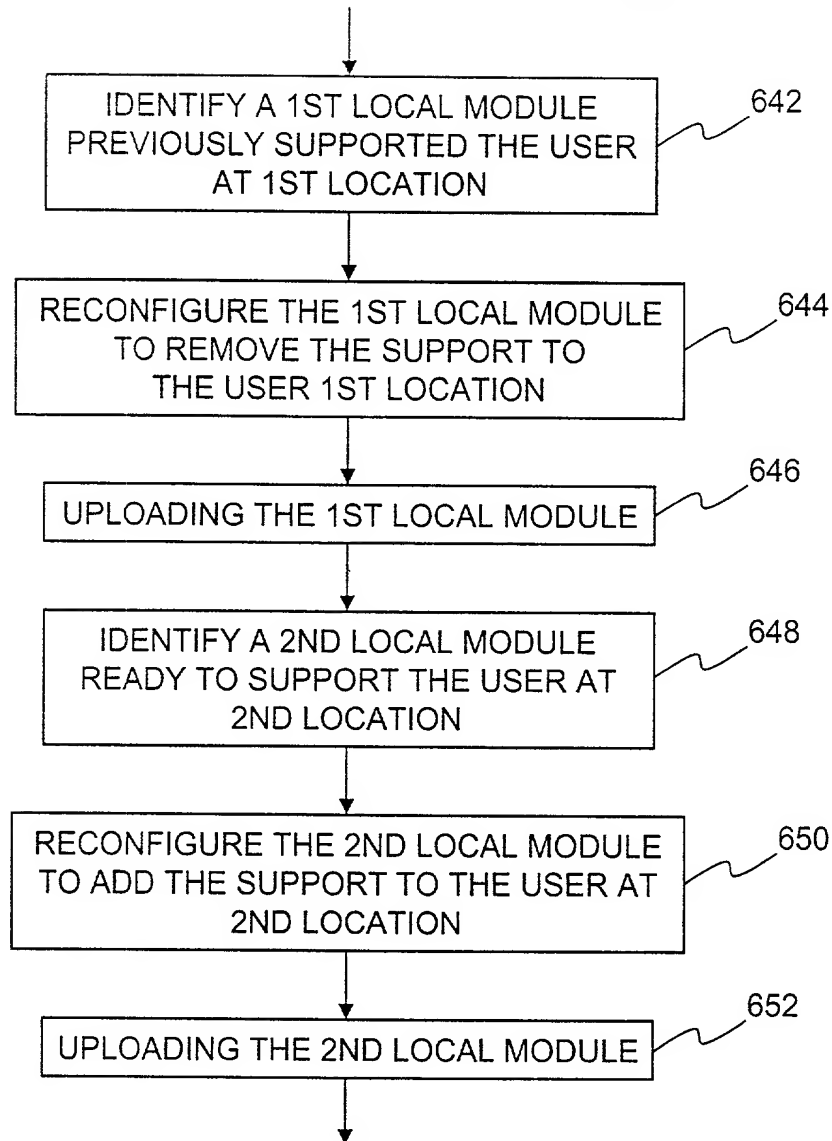


Fig. 6C

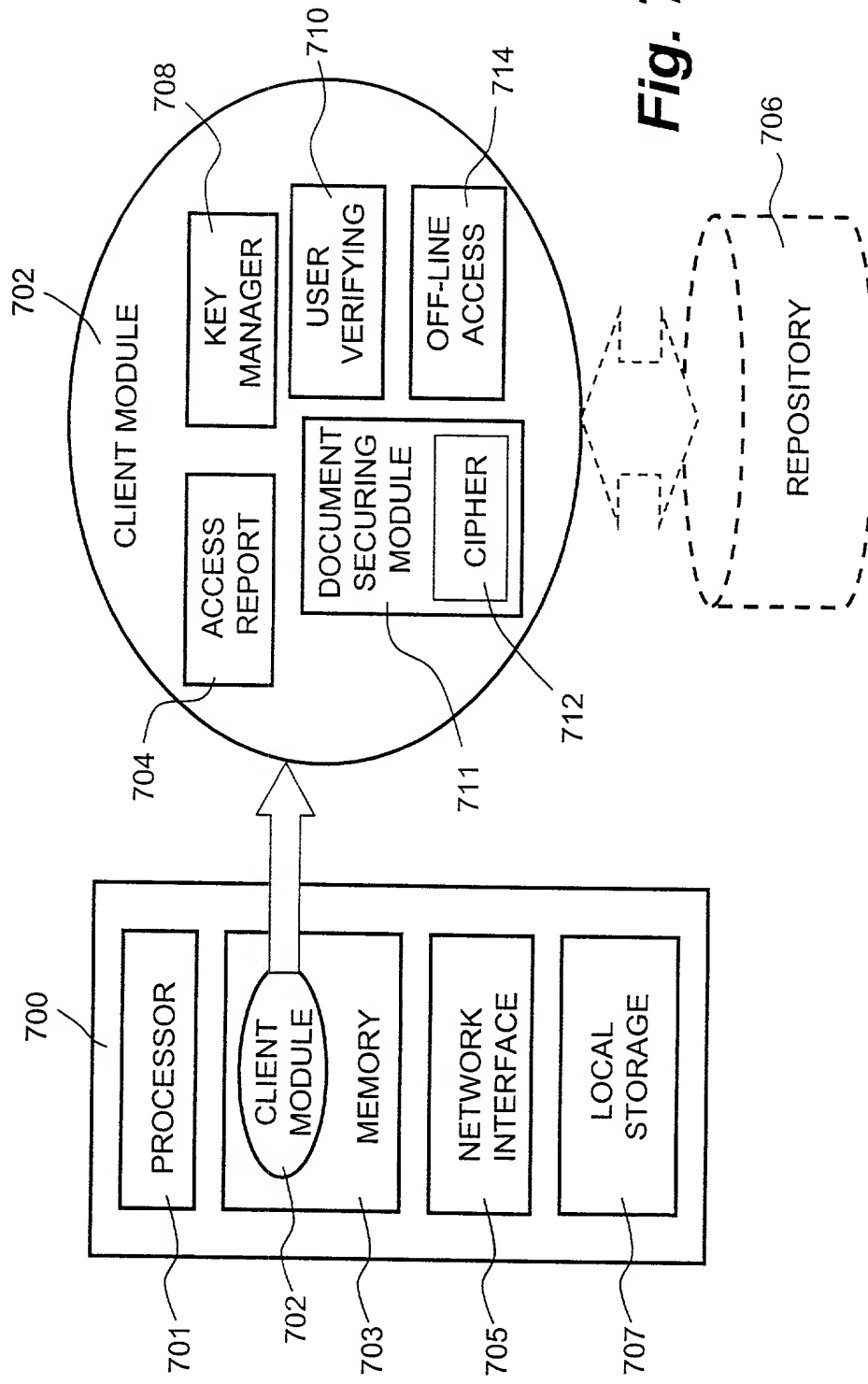


Fig. 7A

720

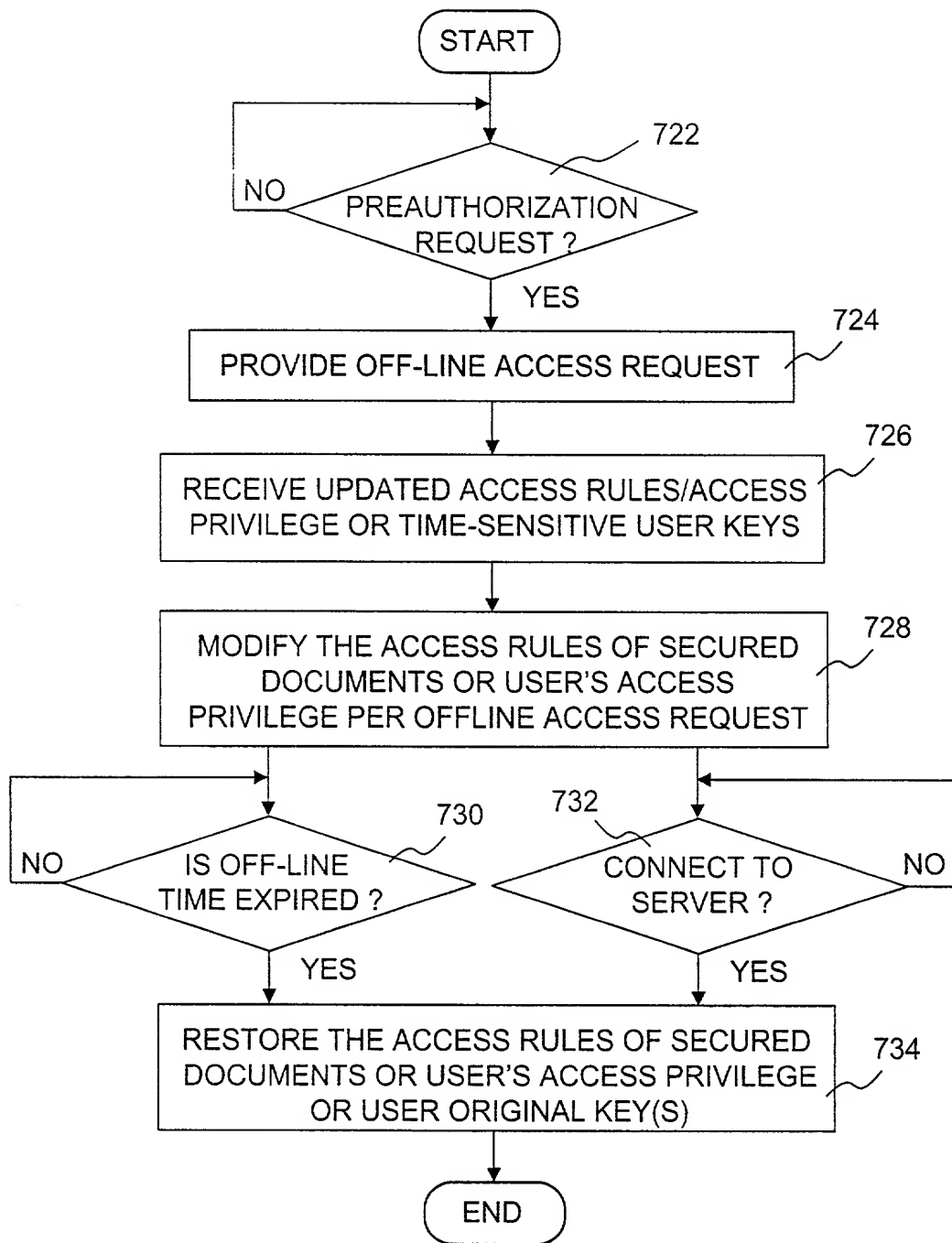


Fig. 7B

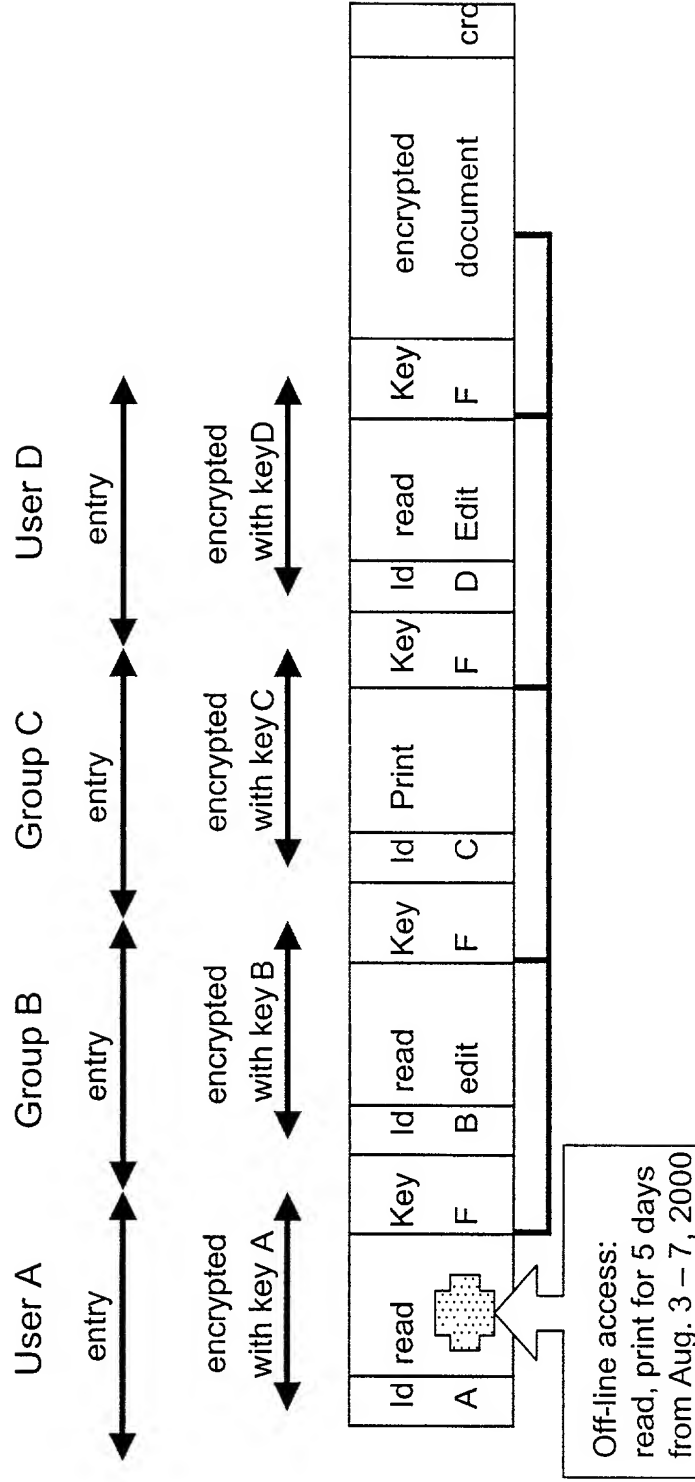


Fig. 7C